



The Pivot Laser Extensometer system comes complete with a hard-shell, robust carrying case.

SPECIFICATIONS	
ITEM	DESCRIPTION
Minimum Measurement Length	1.5 m
Maximum Measurement Range	50 m
Measurement Resolution	0.1 mm
Repeatability	0.3 mm
Absolute Accuracy at 30 m	1 mm
Temperature Range	-10° to +50°C
Readout (Ultra-Rugged Field PC <sup>2</sup> )	Connects via Bluetooth

ORDERING INFO	
ITEM	PART #
PIVOT LASER EXTENSOMETER UNIT Includes Ultra-Rugged Field PC <sup>2</sup> and Rugged Carry Case	EXTE3000
PIVOT LASER EXTENSOMETER UNIT Includes Rugged Carry Case and Software for Field PC <sup>2</sup> . Does NOT include Ultra-Rugged Field PC <sup>2</sup> .	EXTE3001
Pivot Laser Extensometer Anchor Point with Protective Plug	EXTE3010
Pivot Laser Extensometer Reflective Target Point - 25mm ø	EXTE3015



The Ultra-Rugged Field PC<sup>2</sup> serves as the readout and is wirelessly connected via Bluetooth.

	PRODUCT CATEGORY:
	EXTENSOMETERS

## Pivot Laser Extensometer

The Pivot Laser Extensometer is a portable device designed to measure the relative distance between two or more reference points fixed to an excavation surface or a structure. This instrument is ideally suited to the repeated precise measurement of distances between points in an underground opening or excavation.

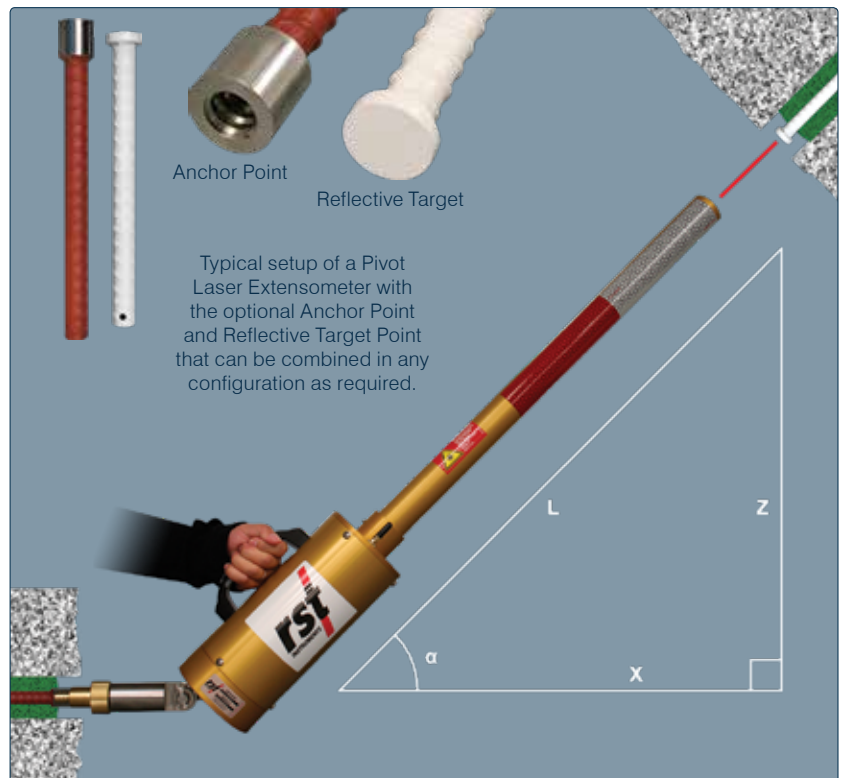
The instrument consists of a portable precision laser distance meter which is temporarily connected in the field to a permanent wall or floor anchor point and then aligned toward permanent target points installed around the opening. The distance measurement between the two points is recorded by an integral data logger unit for later download and analysis.

Instrument anchor points and target points are provided separately and can be combined in any configuration required.

A tilt meter is included with internal trigonometric reduction of horizontal and vertical components.

The Ultra-Rugged Field PC<sup>2</sup> (readout) is programmed with location names to automate data reduction.

> APPLICATIONS	
Mine development in moving ground; measurement of roof sag and squeezing ground.	Measurement of tunneling convergence or dilation.
Measurement of surface movement between points.	Monitoring and control of NATM construction.
> BENEFITS	
✓ Increase Safety	✓ High Accuracy



Typical setup of a Pivot Laser Extensometer with the optional Anchor Point and Reflective Target Point that can be combined in any configuration as required.